Fig.1

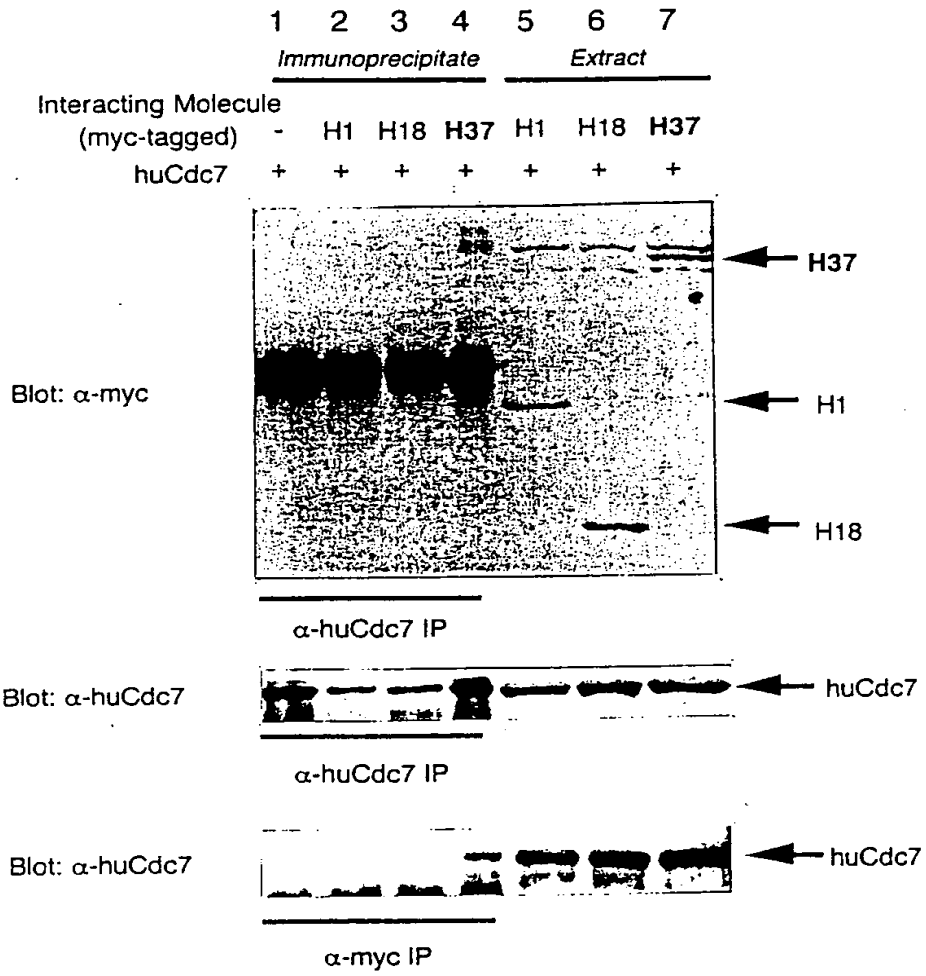
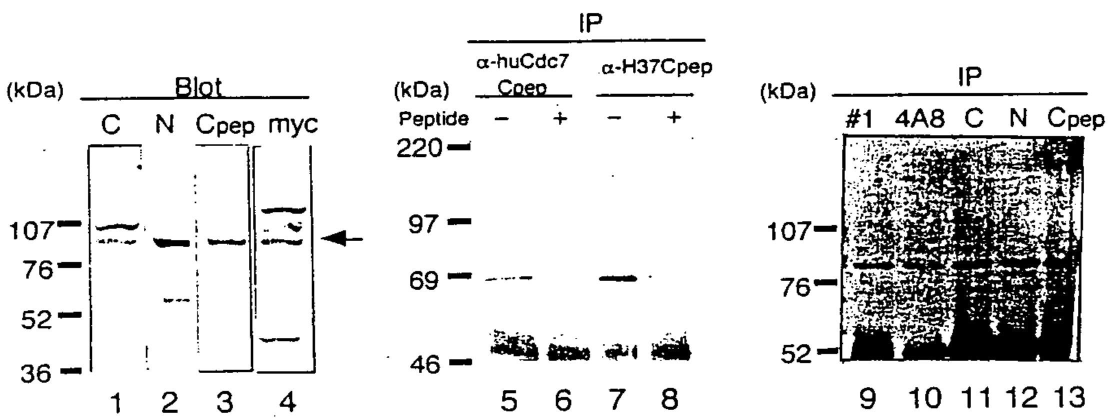

1 2 3 4 5 6 7
Immunoprecipitate
Extract
Interacting Molecule (myc-tagged) - H1 H18 H37 H1 H18 H37
huCdc7 + + + + + + +
H37
H1
H18
Blot: α-myc
α-huCdc7 IP
Blot: α-huCdc7
huCdc7
α-huCdc7 IP
Blot: α-huCdc7
huCdc7
α-myc IP

Fig.2



09/830647

Fig.3

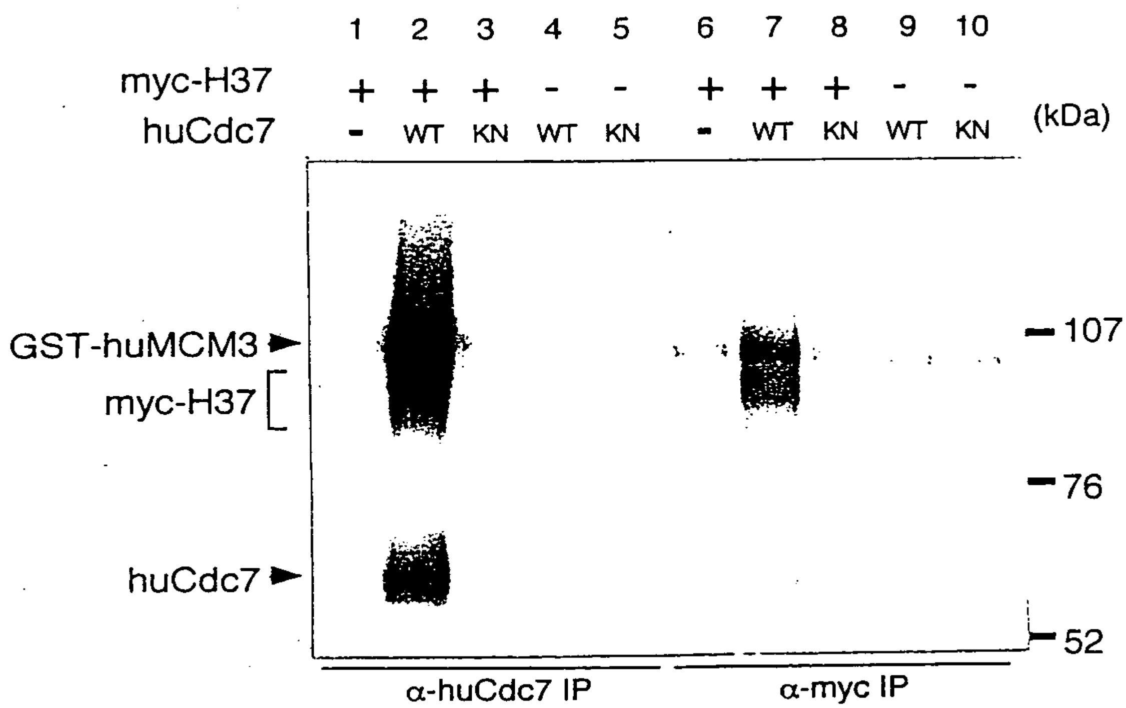


Fig.4

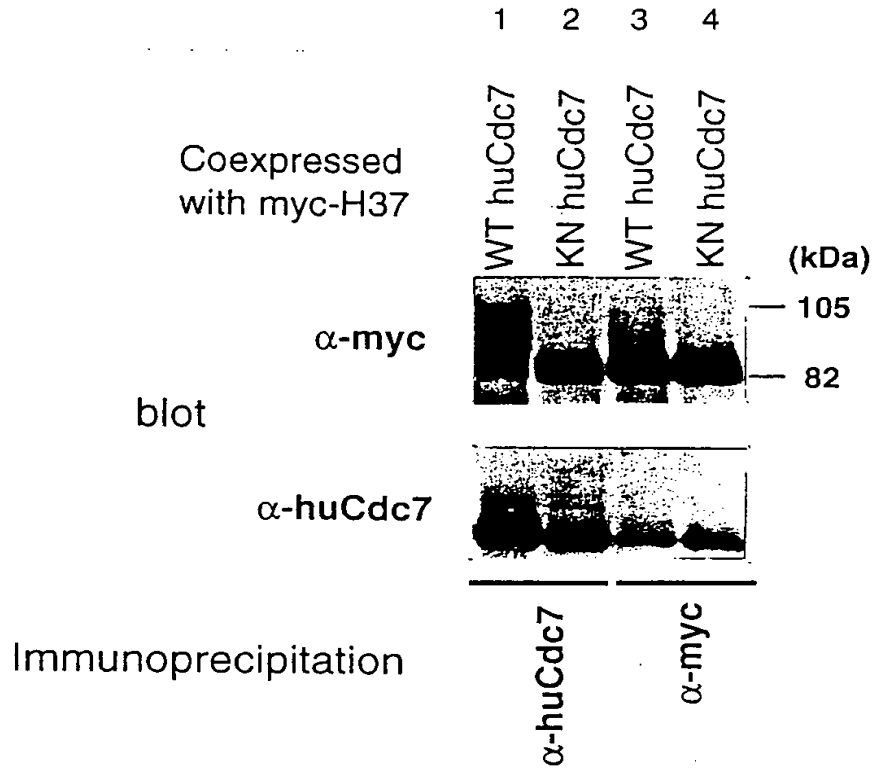
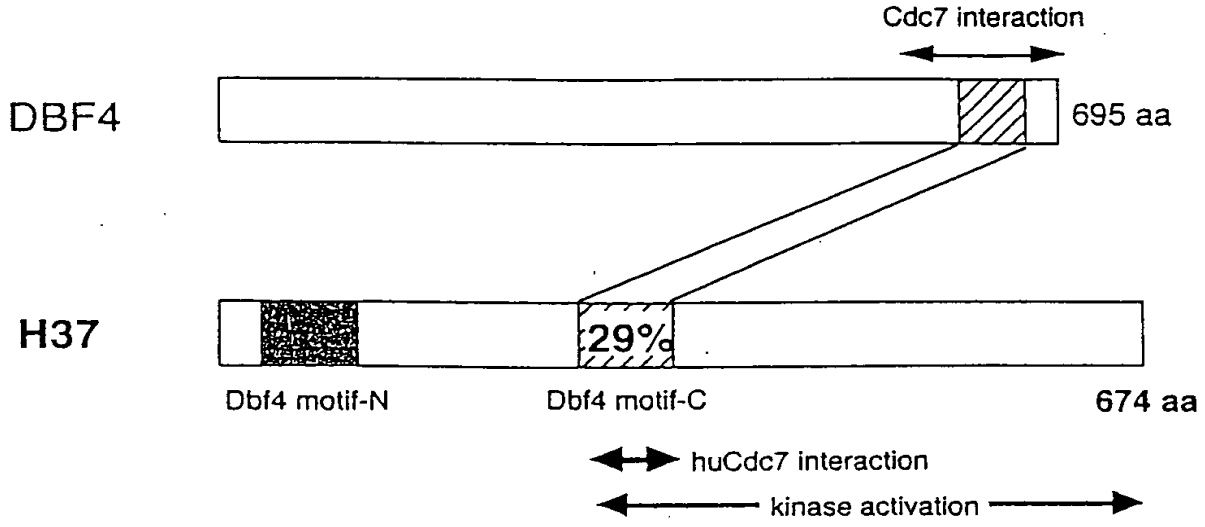


Fig.5

```
1         10         20         30         40         50         60
MNSGAMRIHSKGHFQGGIQVKNEKNRPSLKSLKTDNRPEKSKCKPLWGKVFYLDLPSVTI
                                                  Dbf4 motif-N
61        70         80         90        100        110        120
SEKLQKDIKDLGGRVEEFLSKDISYLISNKKEAKFAQTLGRISPVPSPESAYTAETTSPH

121       130        140        150        160        170        180
PSHDGSSFKSPDTVCLSRGKLLVEKAIKDHDFIPSNSILSNALSWGVKILHIDDIRYYIE

181       190        200        210        220        230        240
QKKKELYLLKKSSTSVRDGGKRVGSGAQKTRTGRLKKPFVKVEDMSQLYRPFYLQLTNMP

241       250        260        270        280        290        300
FINYSIQKPCSPFDVDKPSSMQKQTQVKLRIQTDGDKYGGTSIQLQLKEKKKKGYCECCL
                                                  Dbf4 motif-C
301       310        320        330        340        350        360
QKYEDLETHLLSEQHRNFAQSNQYQVVDDIVSKLVFDFVEYEKDTPKKKRIKYSVGSLSP

361       370        380        390        400        410        420
VSASVLKKTEQKEKVELQHISQKDCQEDDTTVKEQNFLYKETQETEKKLLFISEPIPHPS

421       430        440        450        460        470        480
NELRGLNEKMSNKCSMLSTAEDDIRQNFTQLPLHKNKQECILDISEHTLSENDLEELRVD

481       490        500        510        520        530        540
HYKCNIQASVHVSDFSTDNSGSQPKQKSDTVLFPAKDLKEKDLHSIFTHDSGLITINSSQ

541       550        560        570        580        590        600
EHLTVQAKAPFHTPPEEPNECDFKNMDSLPSGKIHRKVKIILGRNRKENLEPNAEFDKRT

601       610        620        630        640        650        660
EFITQEENRICSSPVQSLLDLFQTSEEKSEFLGFTSYTEKSGICNVLDIWEEENSDNLLT

661       670 674
AFFSSPSTSTFTGF*
```

Fig.6



Dbf4 motif-N

```
H37       32:LKTDNRFEKSKGKPLWGKVFYLDLPSVTISEKLQKDIKDLGGRVEEFLSKDISYLISNKK 91
mu-H37      :LKADNRLEKSKYKPLMGKIFYLDLPSITICEKLQKDIKELGGRVEEFLSKDISYFVSNKK
Dm-H37      :TPPKVKVIKSK-RPLCHFKFYLDICDHQLAKRIESDIKALGGHLEFFLSCDITHFVTDKP
                  ***  **   ****          *** *** *  *** **     *

huDbf4N   92:EAKRAQT 98
muDbf4N     EAKYAQT
DmDbf4N     IVIGGTS
            *
```

Dbf4 motif-C

```
H37      263:RQTQVKLRIQTDGDKYGQTSIQLQLKEKKKKGYCFCCLQKYEDLETHLLSFCHRNFAQSN 322
mu-H37       :KQAQPKLRINMDGDKC-GTPVQLQLKEKRKKGYCFCCLQKYEDLETHLLSEKHRNFAQSN
Dm-H37       :PSLQELKKQSAIPNSPRSNCREPIDSSEKQCGVCEICKLEYDILNIHLQSKDHELFAKNS
Dbf4     619:KKSTSTNVTLHFNAQTAQTAQPVKKETVKNSGYCHNCRVKYESLFQHIVSEKHLSFAE-N 677
                                          * ** *  *  * * * * * * **
```

Fig.7

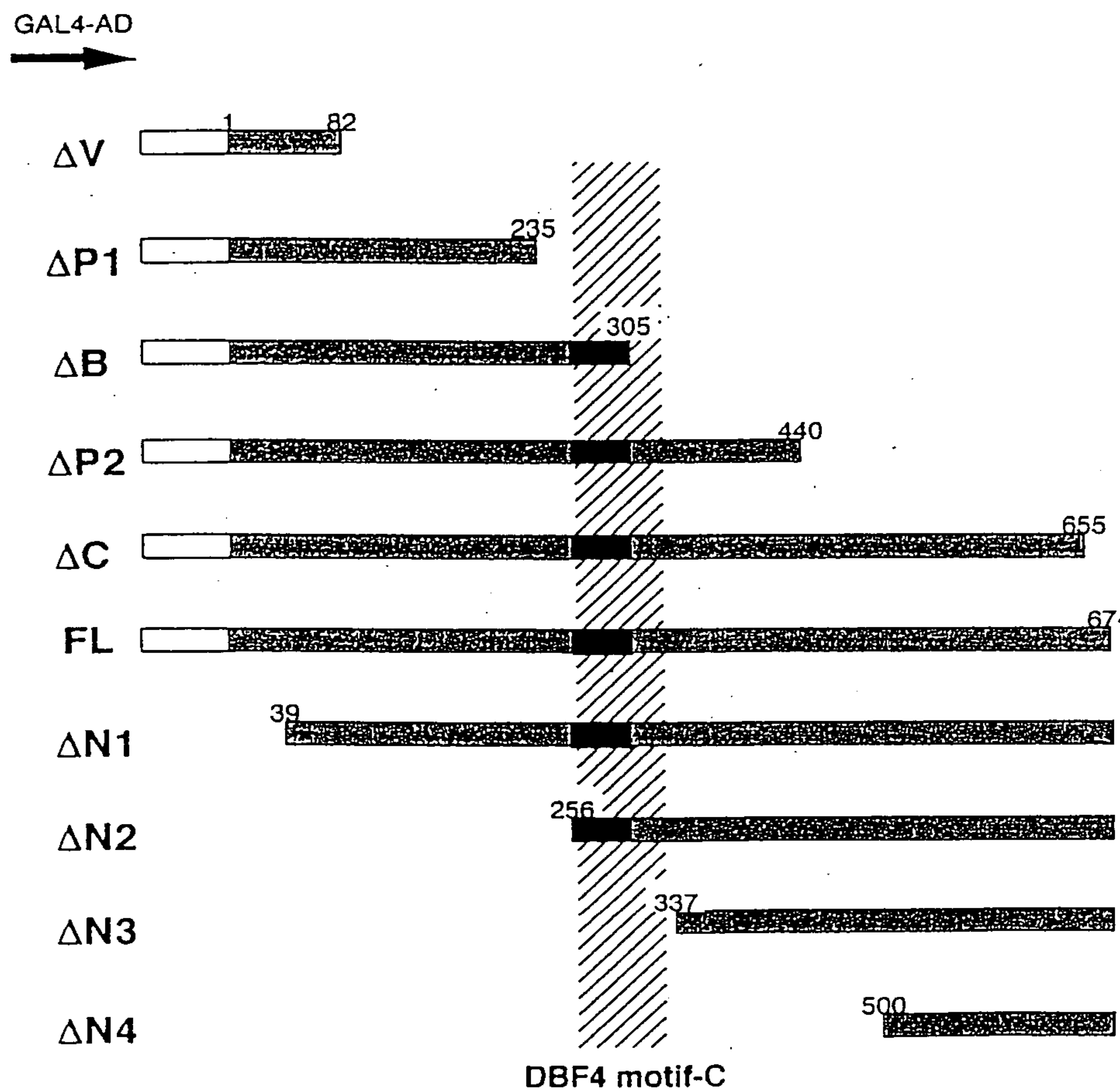
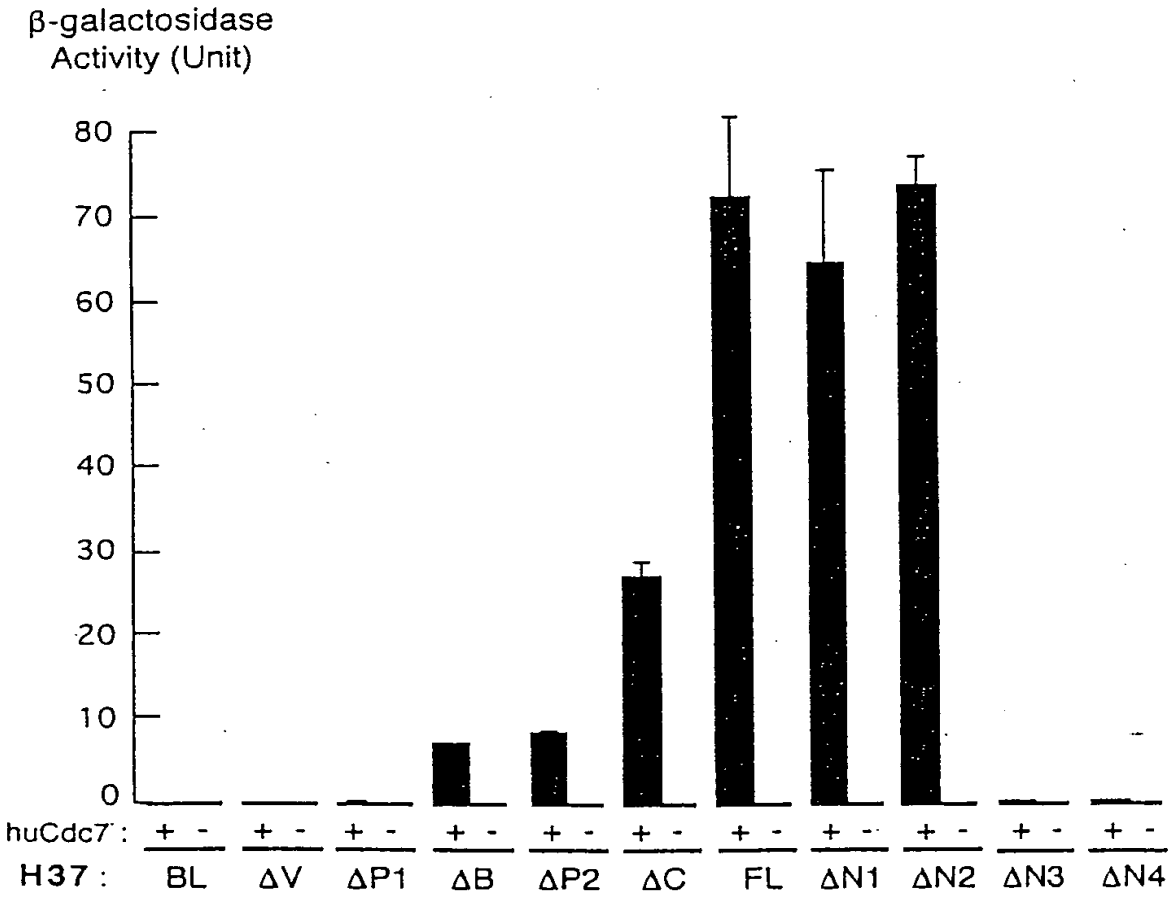


Fig.8


β-galactosidase
Activity (Unit)
80
70
60
50
40
30
20
10
0
huCdc7 : + - + - + - + - + - + - + - + - + - + - + -
H37 : BL ΔV ΔP1 ΔB ΔP2 ΔC FL ΔN1 ΔN2 ΔN3 ΔN4

09/830647

Fig.9

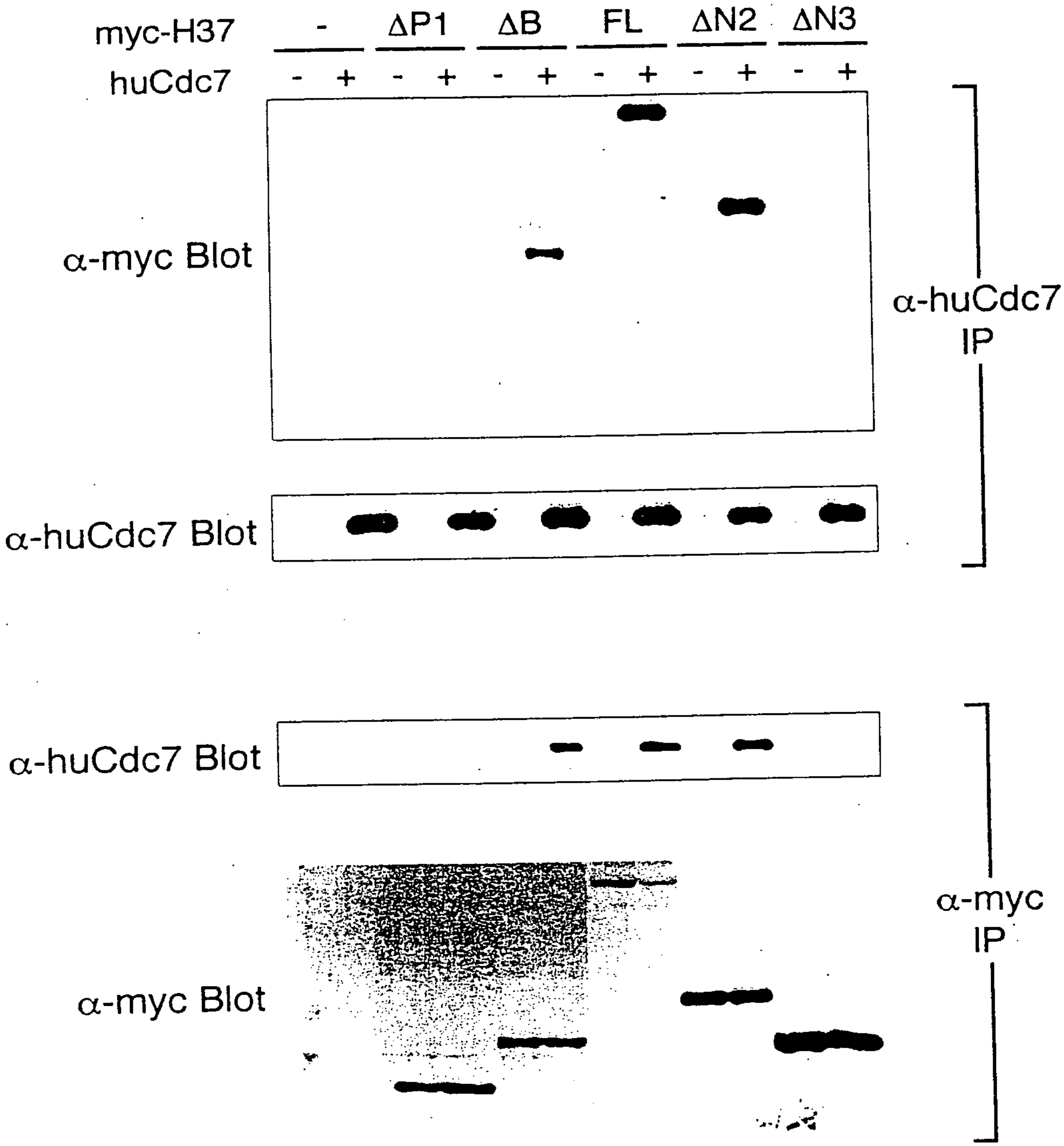


Fig.10

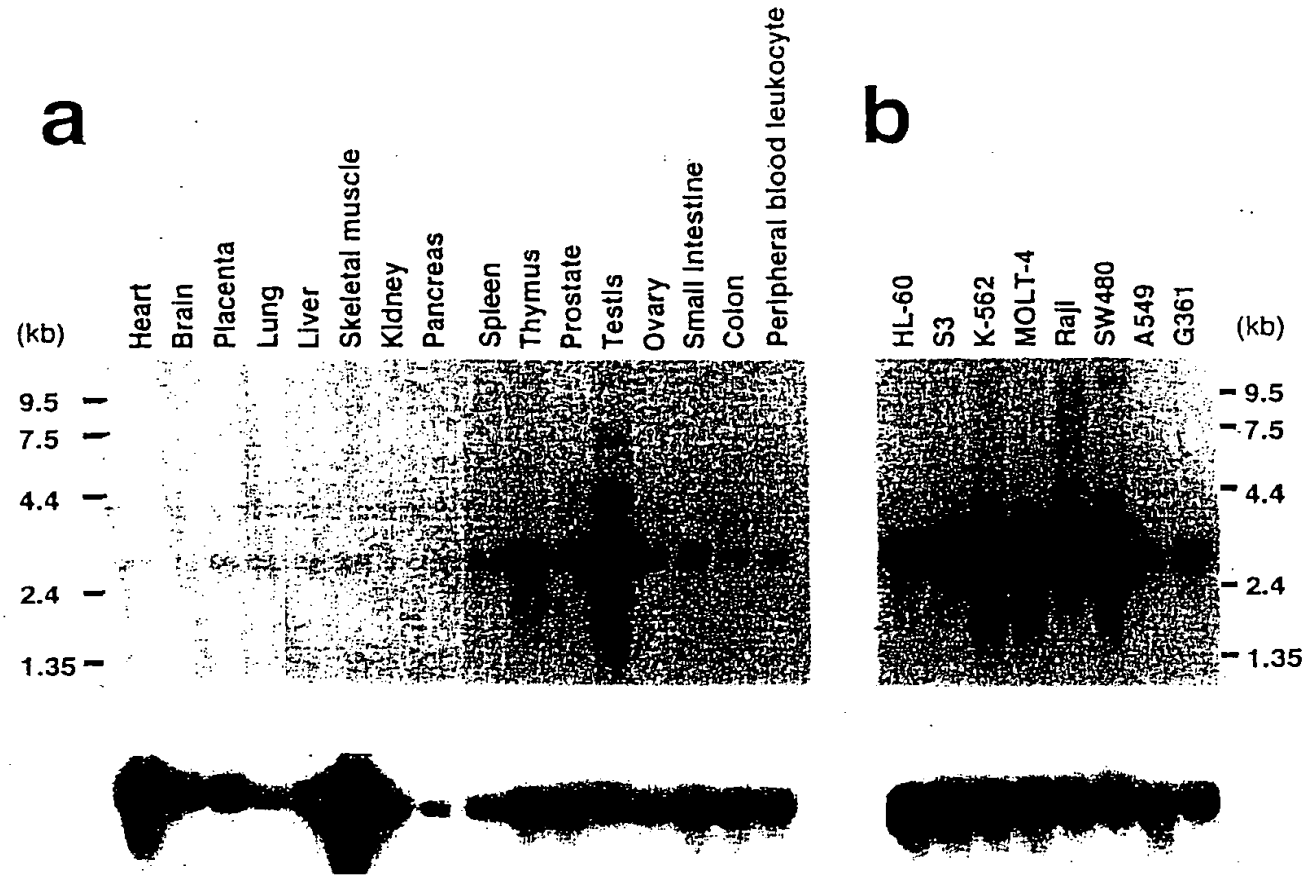

a
(kb)
Heart
Brain
Placenta
Lung
Liver
Skeletal muscle
Kidney
Pancreas
Spleen
Thymus
Prostate
Testis
Ovary
Small Intestine
Colon
Peripheral blood leukocyte
9.5
7.5
4.4
2.4
1.35
b
HL-60
S3
K-562
MOLT-4
Raji
SW480
A549
G361
(kb)
9.5
7.5
4.4
2.4
1.35

Fig.11

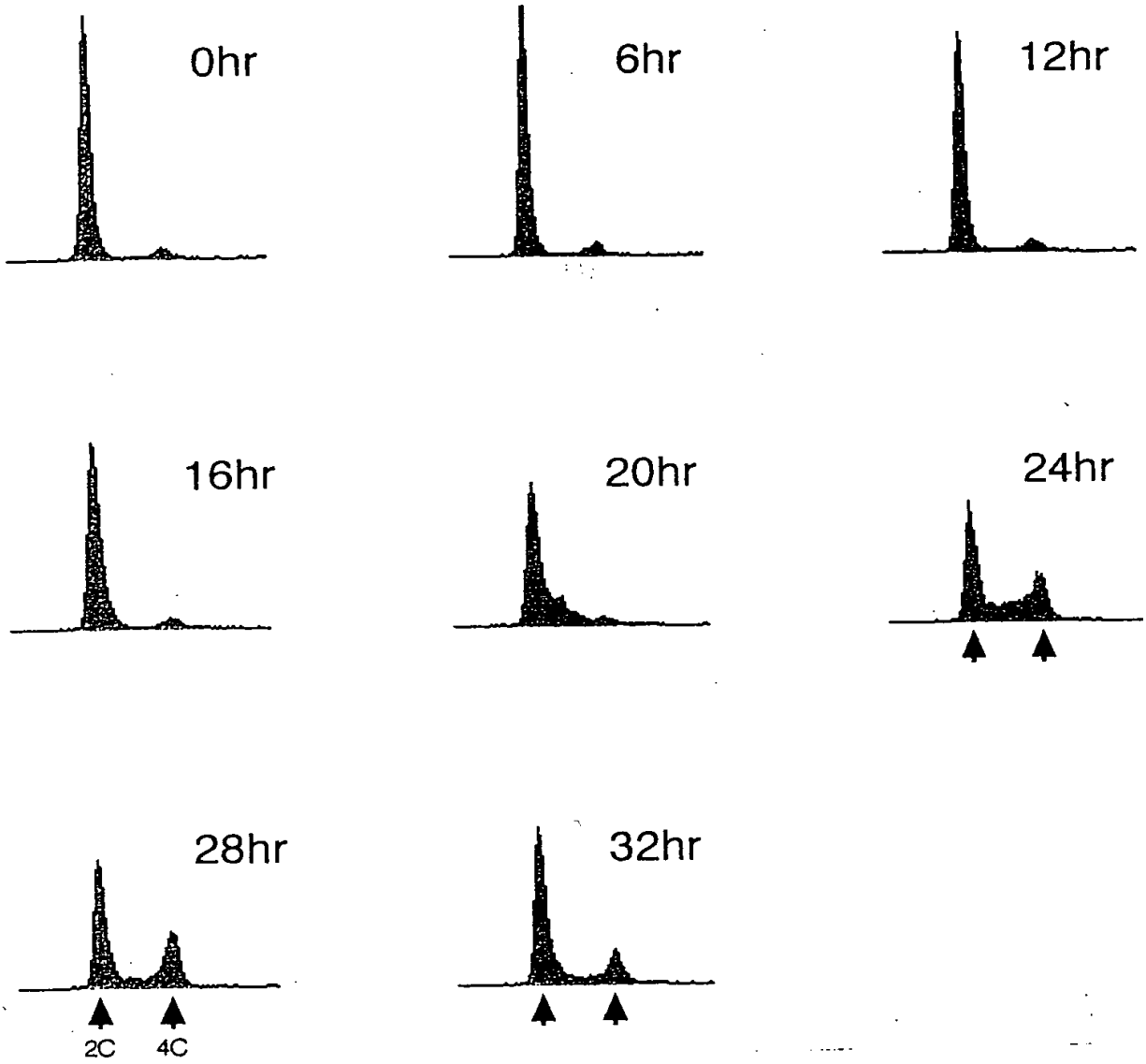


Fig.12

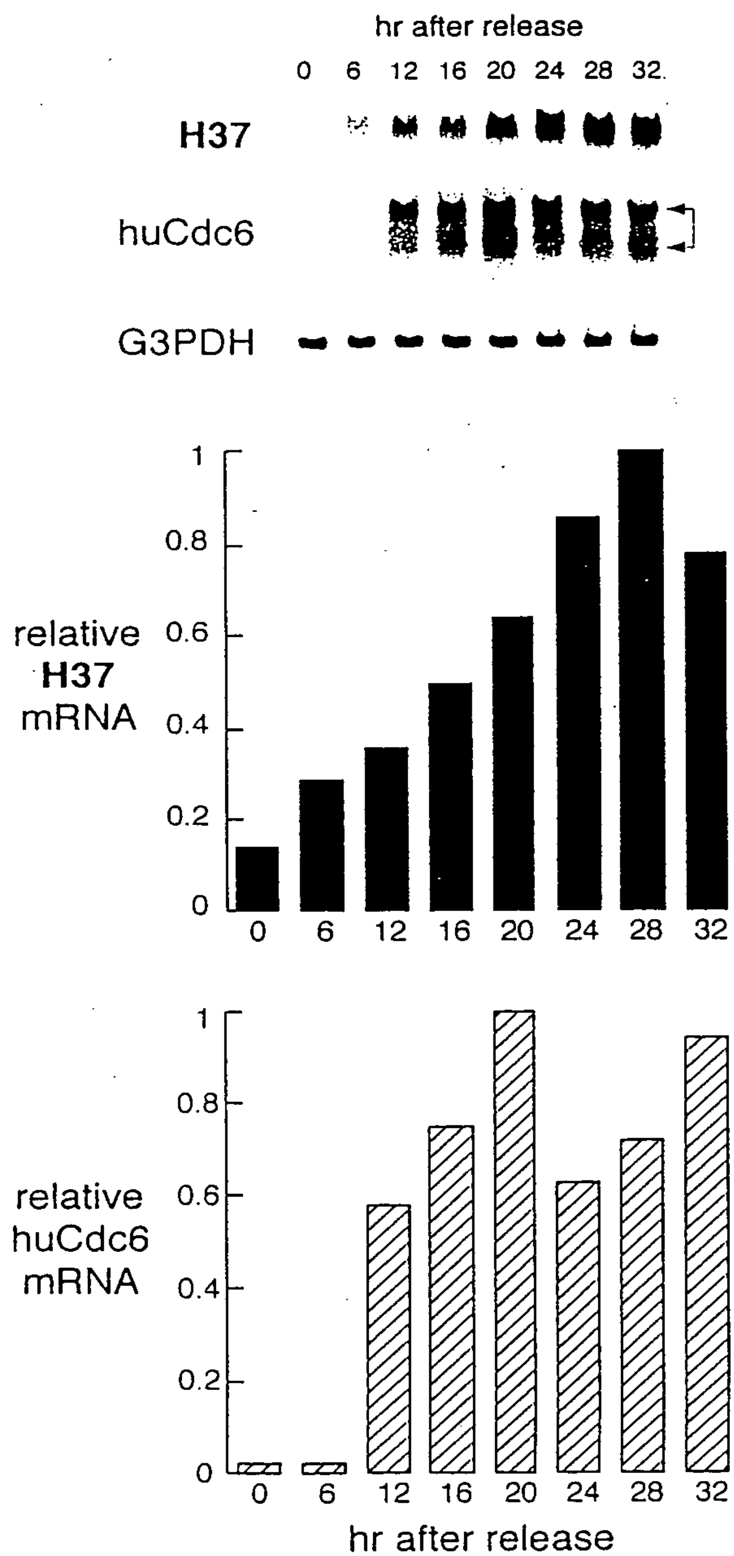


Fig.13

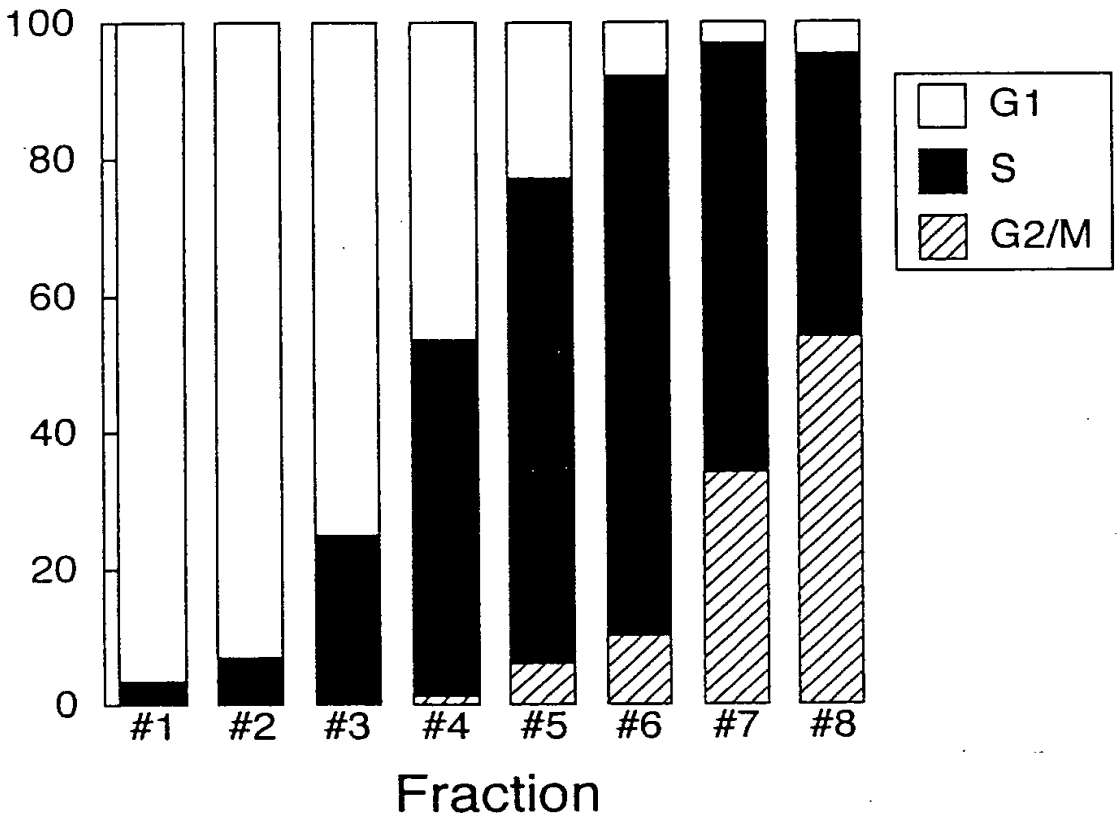


Fig.14

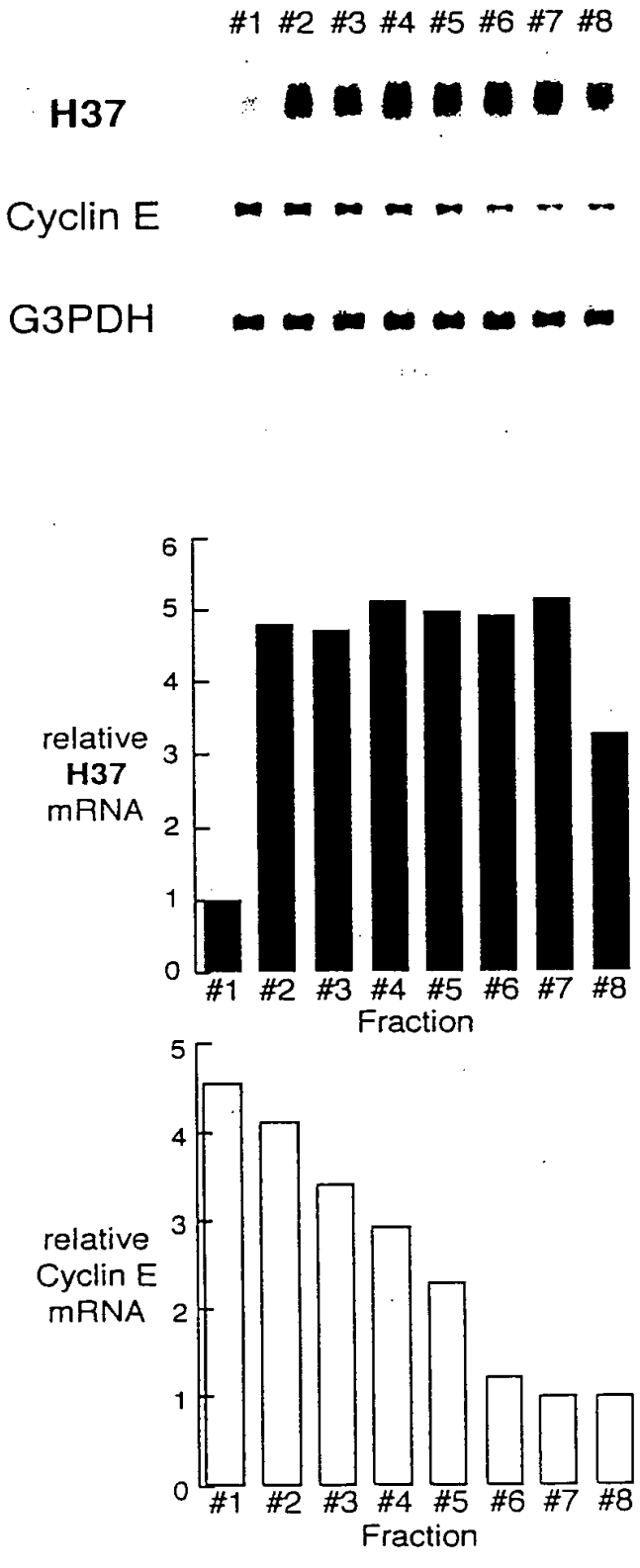


Fig.15

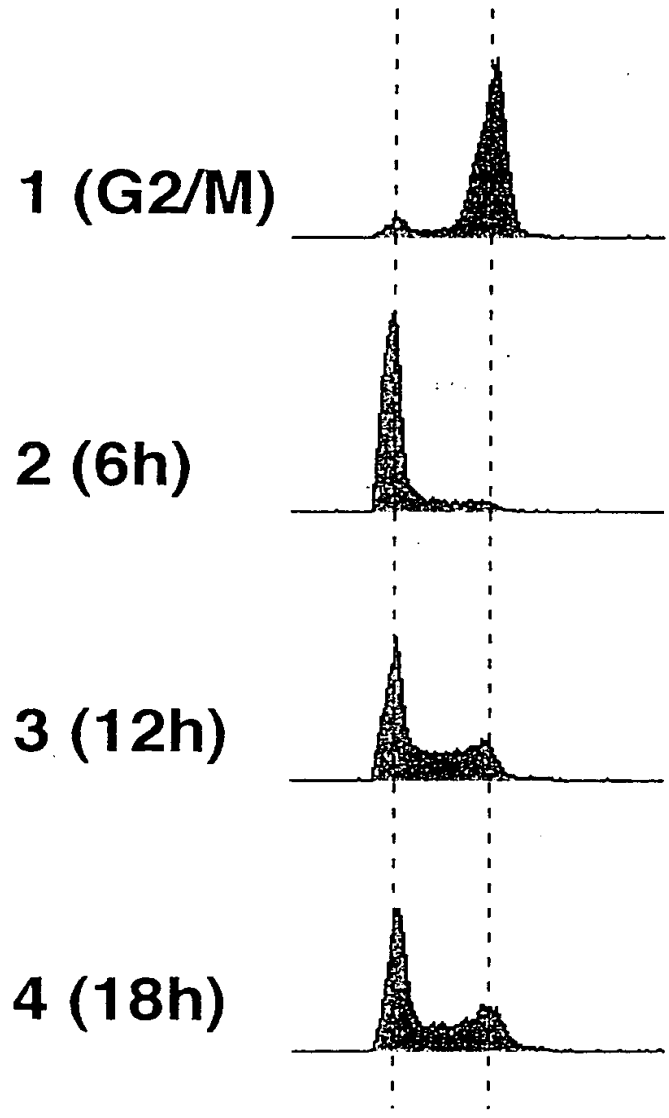


Fig.16

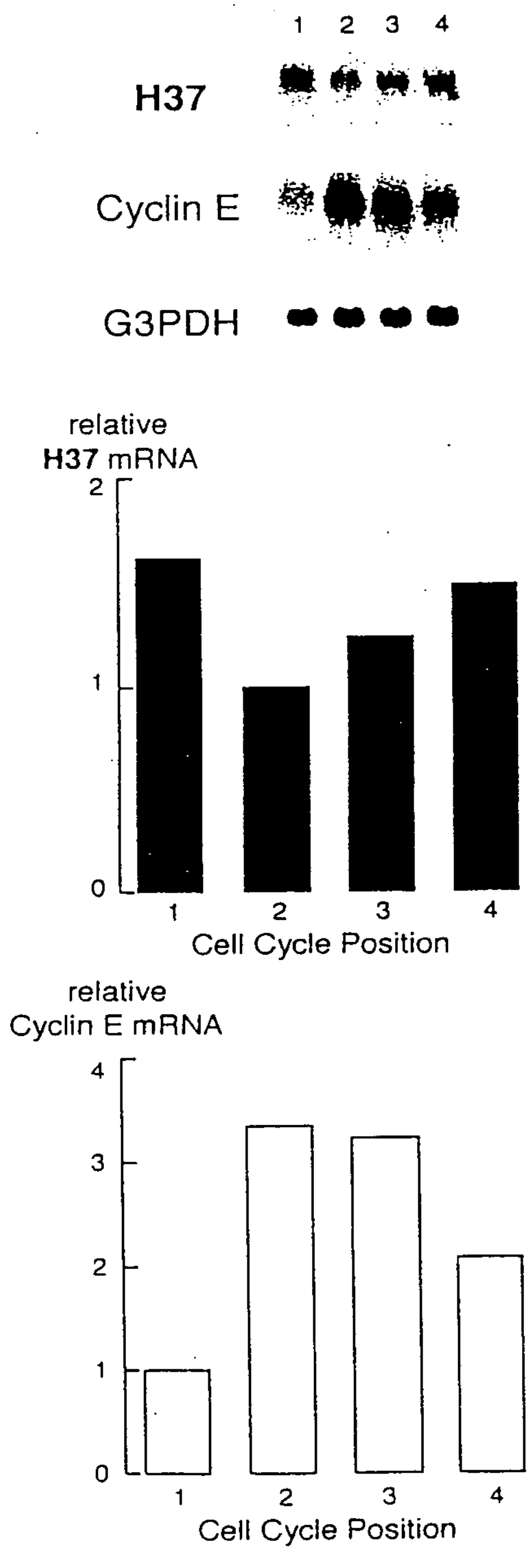


Fig.17

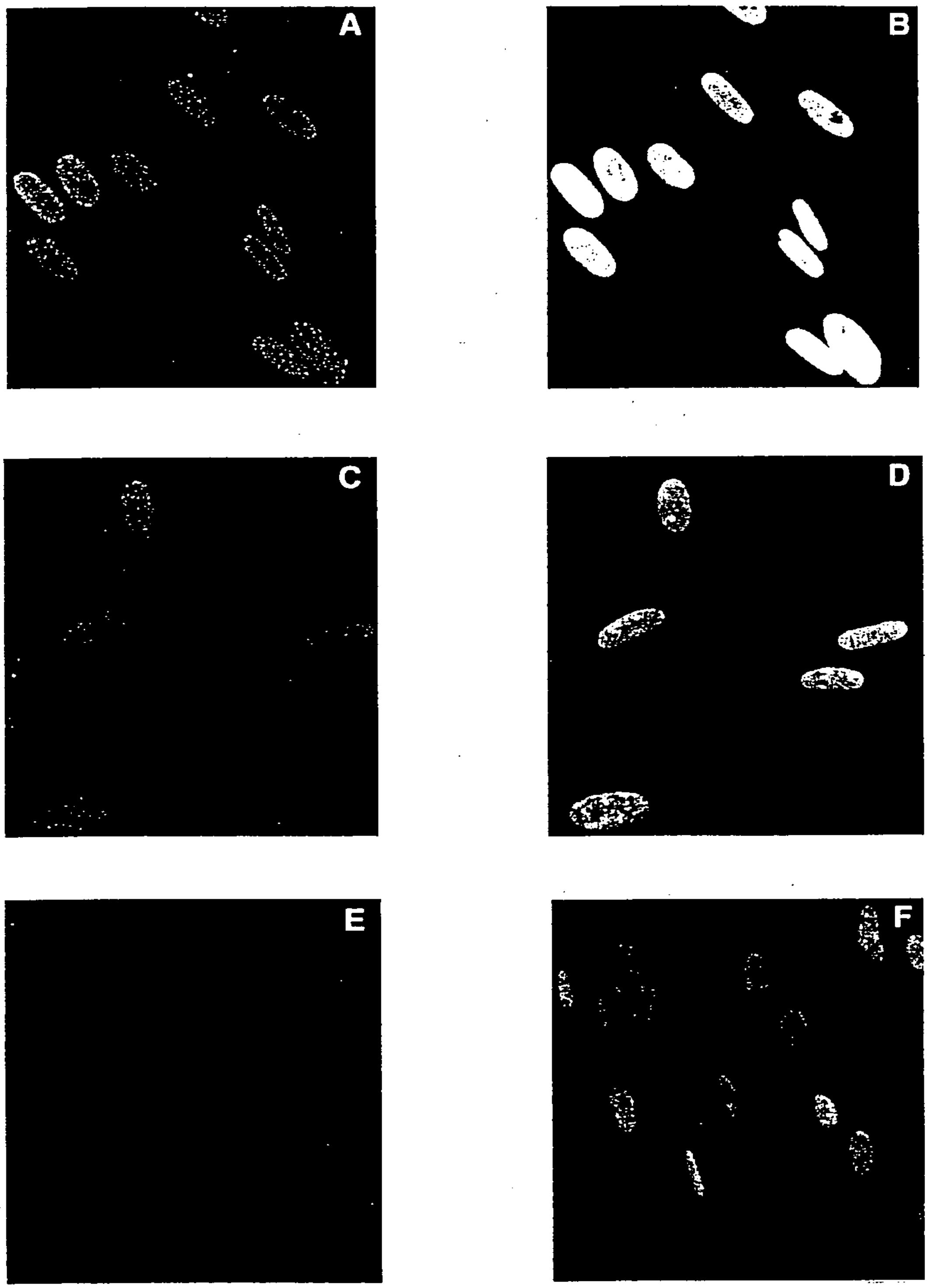


Fig.18

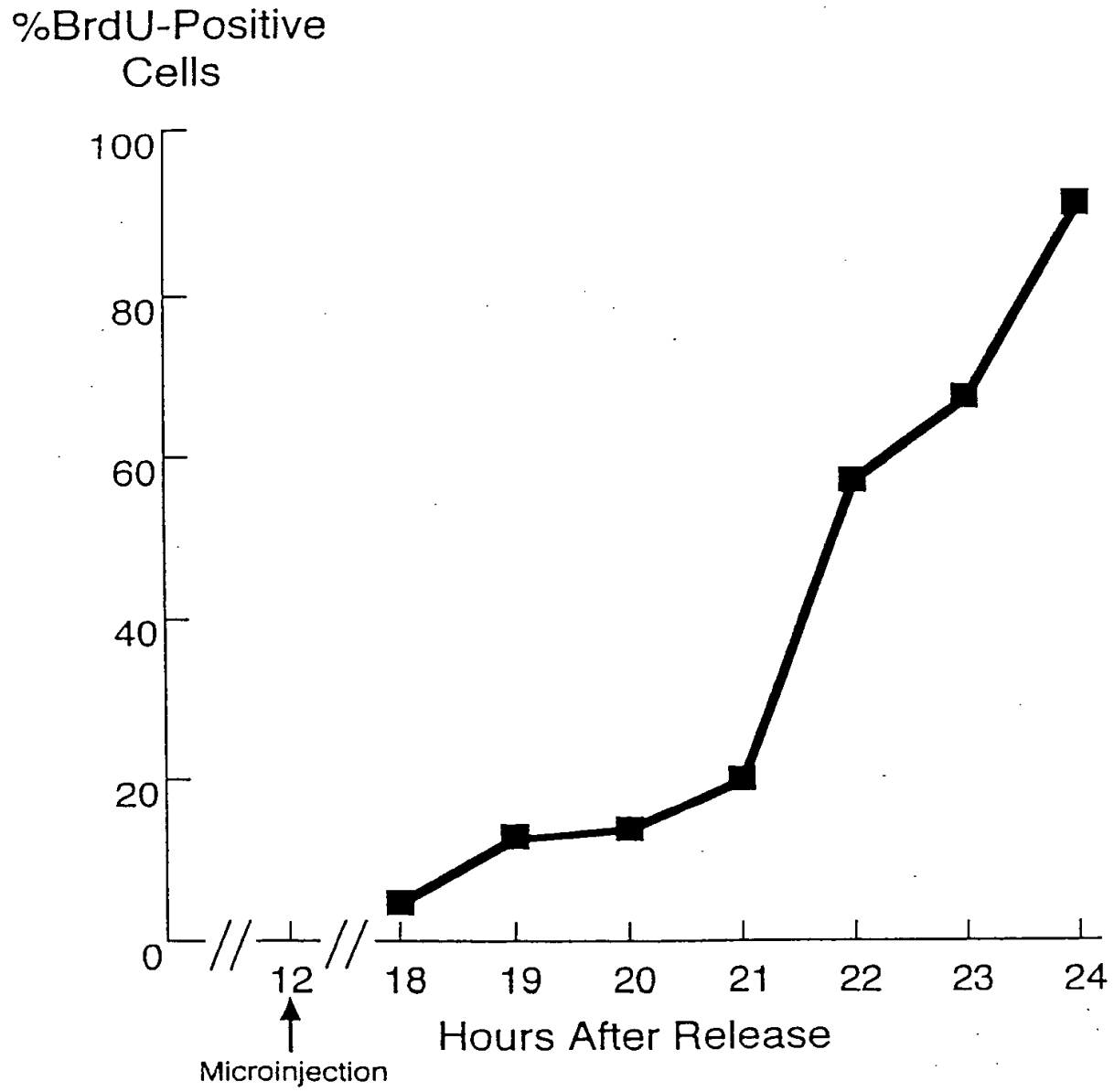


Fig.19

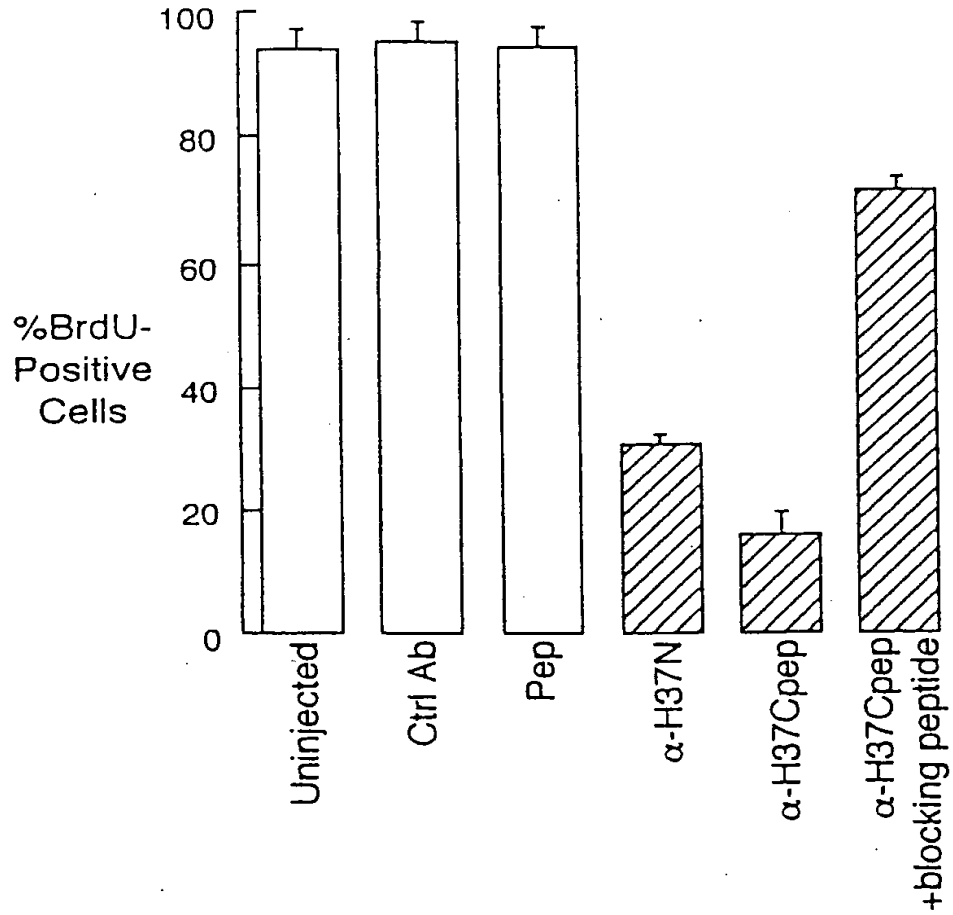


Fig.20